

Spatial Power Spectral Measurements of IR Cirrus

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We have used the recently released IRAS Sky Survey Atlas (ISSA) image data to investigate the surface brightness distribution of selected regions of infrared cirrus using power spectral analysis techniques. Useful signal to noise ratios have been obtained in all 4 IRAS bands ($12\ \mu\text{m}$, $25\ \mu\text{m}$, $60\ \mu\text{m}$ and $100\ \mu\text{m}$) for spatial frequencies between $0.1\ \text{deg}^{-1}$ and $6\ \text{deg}^{-1}$. The 2 dimensional power spectra generally show a radially symmetric power law form with spectral index ≥ -3 .

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